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WPI Acc No: 1992-133640/*199217*

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New peptide(s) as HIV-1 protease and renin inhibitors - for treating hypertension, hyperaldosteronism, AIDS and as diagnostic agents

Patent Assignee: MERCK PATENT GMBH (MERE)

Inventor: DORSCH D; RADDATZ P; SCHMITGES C J; SCHMITGES C

Number of Countries: 020 Number of Patents: 009

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 481311	A	19920422	EP 91117014	A	19911005	199217 B
DE 4033062	A	19920423	DE 4033062	A	19901018	199218
AU 9185877	A	19920430	AU 9185877	A	19911015	199226
CA 2053573	A	19920419	CA 2053573	A	19911016	199228
ZA 9108294	A	19920729	ZA 918294	A	19911017	199236
PT 99262	A	19920831	PT 99262	A	19911017	199239
CS 9103164	A2	19920513	CS 913164	A	19911018	199247
JP 4316548	A	19921106	JP 91333849	A	19911018	199251
EP 481311	A3	19921119	EP 91117014	A	19911005	199342

Priority Applications (No Type Date): DE 4033062 A 19901018

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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EP 481311	A	G	16		
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Designated States (Regional): AT BE CH DE DK ES FR GB GR IT LI LU NL SE

DE 4033062	A	15	
ZA 9108294	A	41	C07K-000/00
JP 4316548	A	19	C07C-237/22
AU 9185877	A		C07D-239/26
CA 2053573	A		C07K-007/00
PT 99262	A		C07K-005/00
CS 9103164	A2		C07K-005/02

Abstract (Basic): EP 481311 A

Amino acid derivs. of formula (I) and their salts are new. X= H, R0-O-CmH2mCO-, R9-CmH2m-OCO, R9-CmH2mCO, R9SO2, R10R11N-CmH2mCO, R12NH-C(=NH)-NH-CmH2mCO, R10OOC-CmH2mCO, R10-O3S-CmH2mCO, R10O(CH2CH2O)rCMH2mCO or A3N+-CmH2m-CO-An-; W= O or NH; R1, R2, R7, R8 and R9= H, A, Ar, Ar-alk, Het, Het-alk, or (opt. substd. by 1 or more A, AO and/or Hal) 3-7C cycloalkyl, 4-11C cycloalkylalkyl, 7-14C bi- or tri-cycloalkyl or 8-18C bi- or tri-cycloalkylalkyl; R3= (H, OH), (H, NH2) or oxo; R4, R5, R10 and R11= H or A; R10R11N can also be pyrrolidino, piperidino, morpholino or piperazino (opt. substd.; R6= Ar-alk or 4-11C cycloalkylalkyl; R12= H, A, Ar-alk or CN; A= 2 or 3; m and x= 0-10; n, p and r= 0-3; Ar= phenyl (opt. substd.). Het= satd. or unsatd. 5-6 membered heterocycle with 1-4 N, O and/or S atoms, opt. fused to benzo, and/or substd. by 1 or more of A, OA, Hal, CF3, OH, NO2, OXO, NH2, NHA, NA2, etc., and/or having the N and/or S heteroatoms oxidised; Hal= F, Cl, Br or iodo; Ac= ACO, ArCO, Ar-alk-CO or ANHCO;

An-- anion (which may be absent if a carboxylic gp. in the molecule is present in anionic form); alk= 1-8C alkylene; A= 1-8C alkyl; one or more NHCO gps. in (I) can be replaced by NACO.

USE/ADVANTAGE - (I) inhibit plasma renin and HIV-protease and are useful for treating and preventing renin-dependent hypertension, cardiac insufficiency and hyperaldosteronism or retroviral diseases, esp. AIDS. They are very selective with little effect on other aspartyl proteases. The pref. daily dose is 1-10 mg/kg, esp. given parenterally. (I) can also be used diagnostically, esp. at 0.1-10 mg/kg.

(18)



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